FIG. 1

□ TN - DOSE REPORTER V2.31

Step 2: Treatment Info.

☐ ⊙ Patient #1
☐ ○ Patient #2

Patient Count = 4 ▼

Current Patient: #1
John Smith

| Treatment Information for Patient #1 | Hide Picture |

22

A1

A2

A3

A4

10F

10R

Print

Dosimeter - Assigning Table

Dosimeter	Patient	Site of Dosimeter	Target Dose
A1	#1	Rear Neck	50 cGy
A2	#1	Lower Back	40 cGy
A3	#1	Chest	100 cGy
A4	#1	L thigh	40 cGy

| Back to Step 1 | Apply | Cancel |

To assign (or remove) dosimeters, click on 'Dosimeter' column.
To change image, double click on the current image.
Right click the image for a menu of available image-operations.
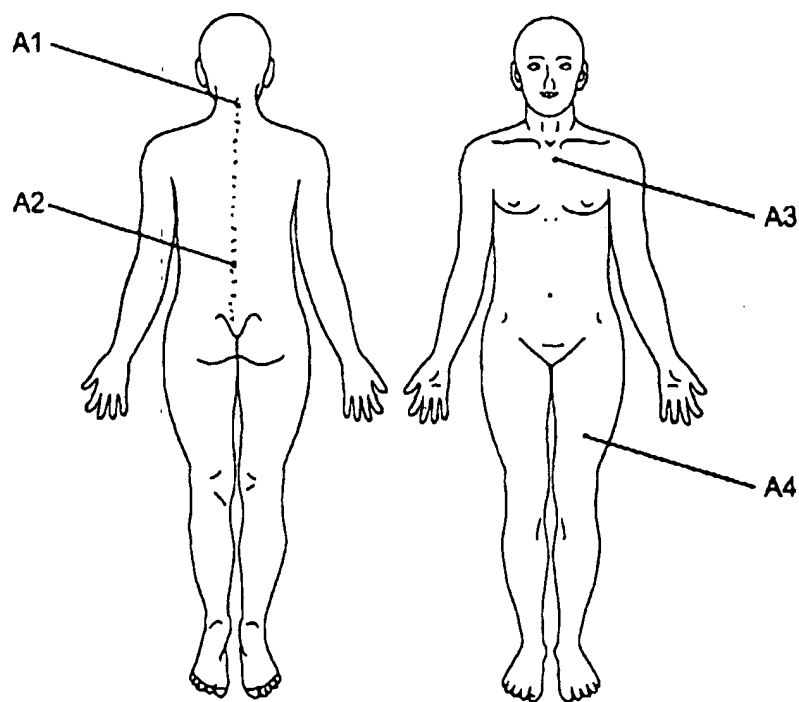
2000-10-02

Exit

FIG. 2

A1
A2
A3
A4

10R

10F

FIG. 3A
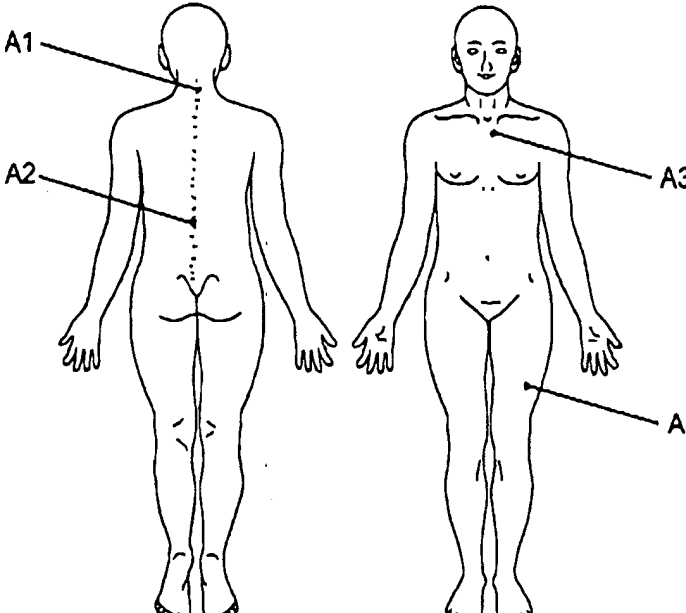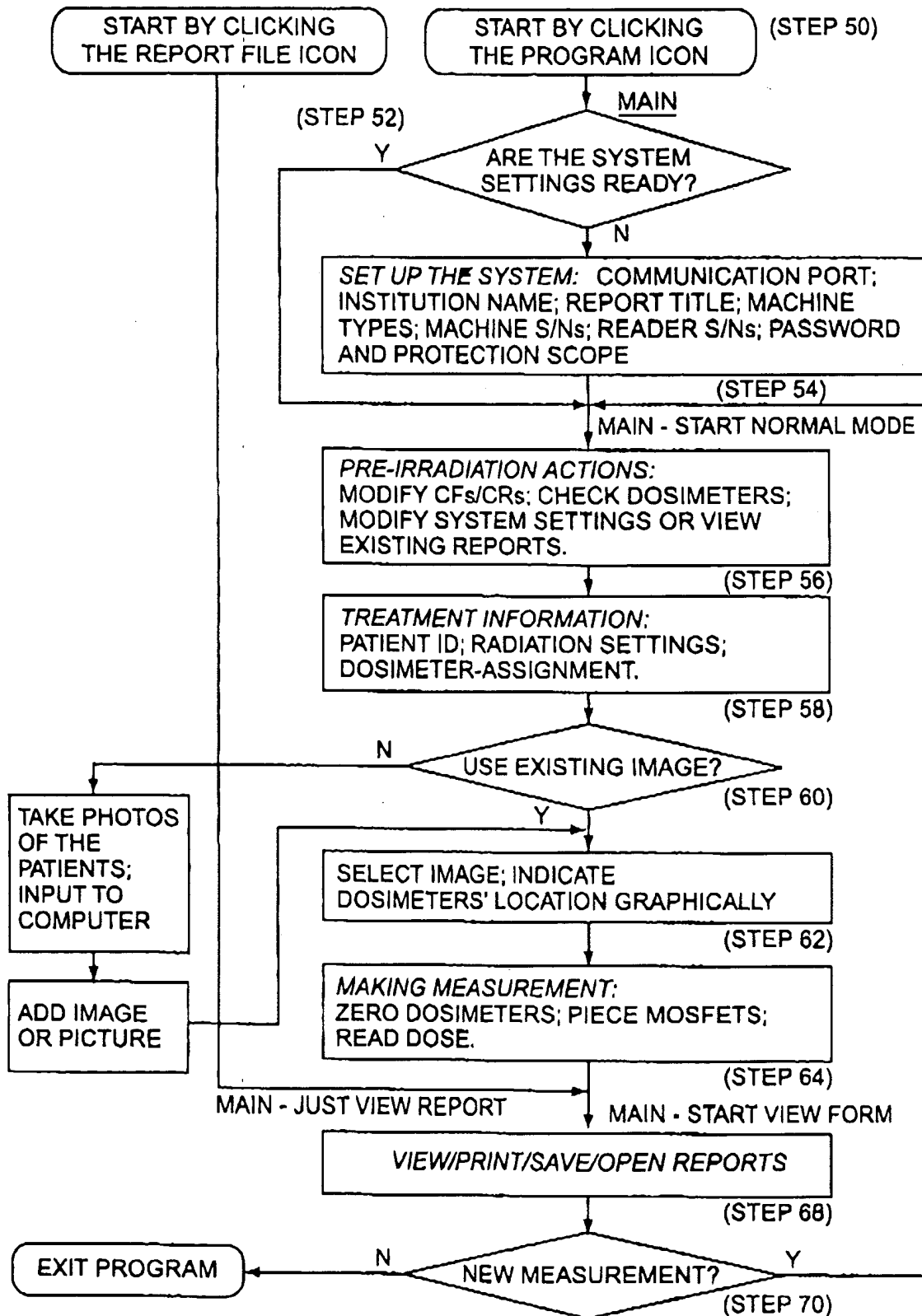
A1
A2
A3
A4

FIG. 3B

DOSIMETRY REPORT

Patient Name : **John Smith**   Registry # : 123456789

Time / Date : 14:28 / Oct 10 2000   Gender : M

Fraction : 2nd	Gantry Angle : 90 deg.	Field Size : 10 x 10
Wedges : None	SSD : 90 cm	Machine Type : Linac
Block : Yes	MU : 100	Machine S/N : 345
Energy : 8 MV	Collimation : None	Reader S/N : 381

<u>DOSE</u> <u>Deviation</u>

A1 :
A2 :
A3 :
A4 :

<u>Dosimeters' Sites & Target Dose:</u>

A1 @ Rear Neck; Target = 50 cGy
A2 @ Lower Back; Target = 40 cGy
A3 @ Chest; Target = 100 cGy
A4 @ L thigh; Target = 40 cGy

A1
A2
A3
A4

(Image: #0)

Comments : All doses in specification

Operator _____ Date _____

Reviewed by _____ Date _____

FIG. 4

FLOWCHART OF HOW TO USE TN-DOSE REPORTER SOFTWARE V2.3

```
┌──────────────────────┐        ┌──────────────────────┐
│  START BY CLICKING    │        │  START BY CLICKING    │  (STEP 50)
│  THE REPORT FILE ICON │        │  THE PROGRAM ICON     │
└──────────────────────┘        └──────────────────────┘
                                            │
                  (STEP 52)               MAIN
           Y          ╱◇╲
        ◄─────────  ARE THE SYSTEM
                     SETTINGS READY?  ╲
                          ╲  ◇  ╱
                            │ N
                            ▼
        ┌──────────────────────────────────────────┐
        │ SET UP THE SYSTEM:  COMMUNICATION PORT;   │
        │ INSTITUTION NAME; REPORT TITLE; MACHINE   │
        │ TYPES; MACHINE S/Ns; READER S/Ns; PASSWORD│
        │ AND PROTECTION SCOPE                        │
        └──────────────────────────────────────────┘
                                            (STEP 54)
                            │ MAIN - START NORMAL MODE
                            ▼
        ┌──────────────────────────────────────────┐
        │ PRE-IRRADIATION ACTIONS:                   │
        │ MODIFY CFs/CRs; CHECK DOSIMETERS;          │
        │ MODIFY SYSTEM SETTINGS OR VIEW             │
        │ EXISTING REPORTS.                           │
        └──────────────────────────────────────────┘
                                            (STEP 56)
                            ▼
        ┌──────────────────────────────────────────┐
        │ TREATMENT INFORMATION:                     │
        │ PATIENT ID; RADIATION SETTINGS;            │
        │ DOSIMETER-ASSIGNMENT.                       │
        └──────────────────────────────────────────┘
                                            (STEP 58)
              N         ╱◇╲
        ◄─────────  USE EXISTING IMAGE?
                          ╲  ◇  ╱  (STEP 60)
                            │ Y
┌─────────────┐           ▼
│ TAKE PHOTOS │  ┌──────────────────────────────────────────┐
│ OF THE      │  │ SELECT IMAGE; INDICATE                     │
│ PATIENTS;   │  │ DOSIMETERS' LOCATION GRAPHICALLY           │
│ INPUT TO    │  └──────────────────────────────────────────┘
│ COMPUTER    │                              (STEP 62)
└─────────────┘            ▼
┌─────────────┐  ┌──────────────────────────────────────────┐
│ ADD IMAGE   │  │ MAKING MEASUREMENT:                        │
│ OR PICTURE  │  │ ZERO DOSIMETERS; PIECE MOSFETS;            │
└─────────────┘  │ READ DOSE.                                 │
                 └──────────────────────────────────────────┘
                                            (STEP 64)
    MAIN - JUST VIEW REPORT   ▼    MAIN - START VIEW FORM
        ┌──────────────────────────────────────────┐
        │ VIEW/PRINT/SAVE/OPEN REPORTS               │
        └──────────────────────────────────────────┘
                                            (STEP 68)
┌──────────────┐  N       ╱◇╲              Y
│ EXIT PROGRAM │◄──────  NEW MEASUREMENT?  ─────►
└──────────────┘              ╲  ◇  ╱
                              (STEP 70)
```
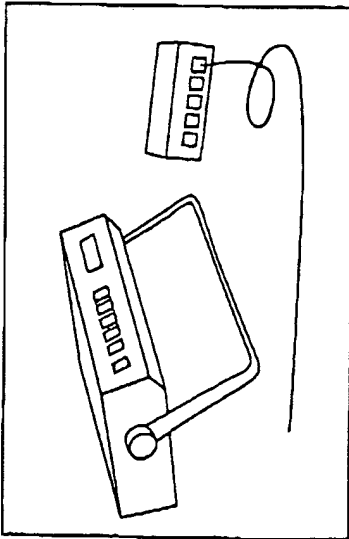
FIG. 5

TN - DOSE REPORTER V2.31

Setting Up The System

Institution Name

Report Title

DOSIMETRY REPORT

Communication

Serial Port : COM 1

You must tell the program which serial port is used to communicate with TN-RD-50 Reader.

If in doubt, follow these steps :

(1) :
Ensure that the TN-RD-50 Reader has been connected to this computer.

(2) :
Choose one port from the

Password Protection

At Present, No Password Has Been Set.

Setting Password

List of Readers' S/N

Input new S/N here.

Add   Remove

List of Machine Type

Input new type here.

Add   Remove

List of Machine S/N

Input new S/N here.

Add   Remove

To accept the current settings, click 'Apply'. Otherwise, click 'Cancel'.

Cancel   Modify   Apply   OK

2000-10-02

FIG. 6A

TN - DOSE REPORTER V2.31

Step 1: Pre-Irradiation

Current Action: Check Dosimeters

Reader's Messages
- ○ Show All   ○ Hide
- ◉ Show Recent

SETUP
UNIT:
LOCATION:
ENERGY:
SSD:
GANTRY ANGLE:
COLLIMATION:
FIELD SIZE:
EXPOSURE:

08:50:55 2000-10-02
ZERO DOSIMETERS

B1 TOTAL: 12,638 mV
B2 TOTAL: 17,417 mV
B3 TOTAL: 17,221 mV
B4 TOTAL: 113 mV
B5

Calibrating Parameters [Print]   Dosimeter Checking Records [Clear]

Dosimeter	CF	CR	Time	Total Voltage	Notes
A1	01.00 mVcGy	1.000			
A2	01.00 mVcGy	1.000			
A3	01.00 mVcGy	1.000			
A4	01.00 mVcGy	1.000			
A5	01.00 mVcGy	1.000			
B1	01.00 mVcGy	1.000	08:50:55	TOTAL: 12,638 mV	
B2	01.00 mVcGy	1.000	08:50:55	TOTAL: 17,417 mV	
B3	01.00 mVcGy	1.000	08:50:55	TOTAL: 17,221 mV	
B4	01.00 mVcGy	1.000	08:50:55	TOTAL: 113 mV	
B5	01.00 mVcGy	1.000			
C1	01.00 mVcGy	1.000			
C2	01.00 mVcGy	1.000			
C3	01.00 mVcGy	1.000			
C4	01.00 mVcGy	1.000			
C5	01.00 mVcGy	1.000			
D1	01.00 mVcGy	1.000			
D2	01.00 mVcGy	1.000			
D3	01.00 mVcGy	1.000			
D4	01.00 mVcGy	1.000			
D5	01.00 mVcGy	1.000			

Cancel   Finish   Next Step

Exit

To check dosimeters, connect the corresponding Bias Supply to the Reader, and press the Reader's START button (or ZERO button) for 1 second.

2000-10-02

FIG. 6B

☐ TN - DOSE REPORTER V2.31

Step 2: Treatment Info.

Patient Count = 4 ▾

Current Patient: #1
John Smith

☑ ⊙ Patient #1
☐ ○ Patient #2
☐ ○ Patient #3
☐ ○ Patient #4

Treatment Information for Patient #1 | Show Picture

< Patient Information >

First Name: John
Last Name: Smith
Registry #: 12345678
Gender (M/F): M

< Radiation Settings >

Energy: 18 MV
SSD: 90 cm
Gantry Angle: 0 deg.
Collimation: N/A
Field Size: 10 x10
MU: 100

Radiation Machine

Type: Linac ▾
S/N: 456 ▾

TN-RD-50 Reader

S/N: 278 ▾

Import Existing Treatment Info

< Treatment Plan Ref. >

Fraction: 1
Wedges: None
Block: None

Dosimeter - Assigning Table

Dosimeter	Patient	Site of Dosimeter	Target Dose
A1			
A2			
A3			
A4			
A5			
B1	#1	Site 1	100 cGy
B2	#1	Site 2	100 cGy
B3	#1	Site 3	100 cGy
B4	#1	Site 4	100 cGy
B5	#1	Site 5	100 cGy
C1			
C2			
C3			
C4			
C5			
D1			
D2			
D3			
D4			
D5			

Back to Step 1 | Apply | Cancel

Please fill in the treatment information for the current patient.
To assign (or cancel) dosimeters, click on the 'Dosimeter' column.
To indicate the sites of dosimeters graphically, click on 'Show Picture'.

2000-10-02

Exit

FIG. 6C

☐ TN - DOSE REPORTER V2.31

Step 2: Treatment Info.

Patient Count = 4
Current Patient: #1
John Smith

☑ ⦿ Patient #1
☐ ○ Patient #2
☐ ○ Patient #3
☐ ○ Patient #4

Treatment Information for Patient #1 | Hide Picture

B1
B2
B3
B4
B5

Print

Dosimeter - Assigning Table

Dosimeter	Patient	Site of Dosimeter	Target Dose
A1			
A2			
A3			
A4			
A5			
B1	#1	Site 1	100 cGy
B2	#1	Site 2	100 cGy
B3	#1	Site 3	100 cGy
B4	#1	Site 4	100 cGy
B5	#1	Site 5	100 cGy
C1			
C2			
C3			
C4			
C5			
D1			
D2			
D3			
D4			
D5			

Back to Step 1 | Apply | Cancel

Exit

To change image, double click on the current image.
Right click the image for a menu of available image-operations.

2000-10-02

FIG. 6D

TN - DOSE REPORTER V2.31

Step 3: Measuring Dose

Reader's Messages

◉ Show All   ○ Show Recent   ○ Hide

09:01:49 2000-10-02
B3 DOSE: 100 cGy
B3 TOTAL: 17.212 mV

09:01:51 2000-10-02
B4 DOSE: 100 cGy
B4 TOTAL: 113 mV

09:01:53 2000-10-02
B5 DOSE:
B5 TOTAL:

Records of Measurement

Dosimeter	Patient & Site	Time	Voltage	Dose	Target	Deviation
A1						
A2						
A3						
A4						
A5						
B1	#1, Site 1	09:01:42	N/A	100 cGy	100 cGy	0 %
B2	#1, Site 2	09:01:47	N/A	105 cGy	100 cGy	5 %
B3	#1, Site 3	09:01:49	N/A	100 cGy	100 cGy	0 %
B4	#1, Site 4	09:01:51	N/A	100 cGy	100 cGy	0 %
B5	#1, Site 5	09:01:53	N/A	102 cGy	100 cGy	2 %
C1						
C2						
C3						
C4						
C5						
D1						
D2						
D3						
D4						
D5						

Clear

Back to Step | Record | Stop

Exit

Recording is ongoing. Connect Reader to BIAS SUPPLY(S), then press its 'READ' button(s).
Click on 'Stop' when measurement finished.

2000-10-02

FIG. 6E

□TN - DOSE REPORTER V2.31

Step 4: Viewing/Printing Reports
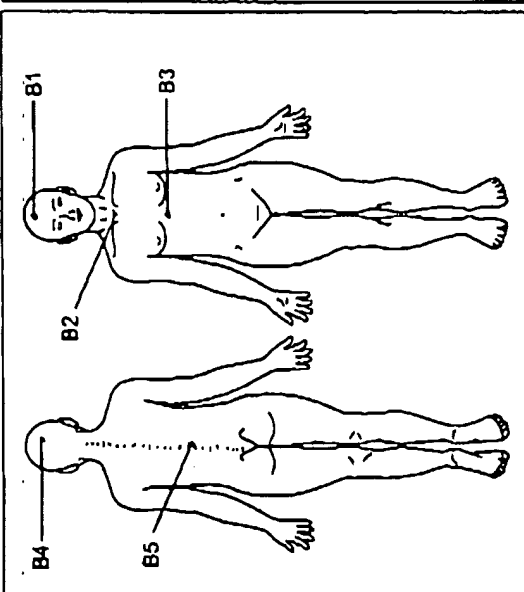
The Current Report is of Patient #1

○ Patient #1
○ Patient #2
○ Patient #3
○ Patient #4

○ others

Report Summary

Patient Name : John Smith
Registry # : 12345678
Gender : M
Image : #0
Finish Time : 09:02 / Oct 02 2000

Dosimeter B1 :	Site @ Site 1	Dose = 100 cGy
	Target Dose = 100 cGy	Deviation = 0 %
Dosimeter B2 :	Site @ Site 2	Dose = 105 cGy
	Target Dose = 100 cGy	Deviation = 5 %
Dosimeter B3 :	Site @ Site 3	Dose = 100 cGy
	Target Dose = 100 cGy	Deviation = 0 %
Dosimeter B4 :	Site @ Site 4	Dose = 100 cGy
	Target Dose = 100 cGy	Deviation = 0 %
Dosimeter B5 :	Site @ Site 5	Dose = 102 cGy
	Target Dose = 100 cGy	Deviation = 2 %

Comments:

Doses within target tolerances.

2000-10-02

Click Here To Start A New Measurement

< Back   Print   Save   Open

Exit

FIG. 6F

ACTION SELECTION AREA

DOSIMETER-CHECKING RECORDS

CALIBRATION PARAMETERS

MESSAGE WINDOW

ON-SCREEN PROMPTS

TN - DOSE REPORTER V2.31

Current Action:
Check Dosimeters

Step 1: *Pre-Irradiation*

Calibrating Parameters | Print

Dosimeter	CF	CR
A1	01.00 mVcGy	1.000
A2	01.00 mVcGy	1.000
A3	01.00 mVcGy	1.000
A4	01.00 mVcGy	1.000
A5	01.00 mVcGy	1.000
B1	01.00 mVcGy	1.000
B2	01.00 mVcGy	1.000
B3	01.00 mVcGy	1.000
B4	01.00 mVcGy	1.000
B5	01.00 mVcGy	1.000
C1	01.00 mVcGy	1.000
C2	01.00 mVcGy	1.000
C3	01.00 mVcGy	1.000
C4	01.00 mVcGy	1.000
C5	01.00 mVcGy	1.000
D1	01.00 mVcGy	1.000
D2	01.00 mVcGy	1.000
D3	01.00 mVcGy	1.000
D4	01.00 mVcGy	1.000
D5	01.00 mVcGy	1.000

Dosimeter Checking Reports | Clear

Time	Total Voltage	Notes
08:50:55	TOTAL: 12,638 mV	
08:50:55	TOTAL: 17,417 mV	
08:50:55	TOTAL: 17,221 mV	
08:50:55	TOTAL: 113 mV	

Reader's Messages
○ Show All   ○ Hide
● Show Recent

SETUP:
UNIT:
LOCATION:
ENERGY:
SSD:
GANTRY ANGLE:
COLLIMATION:
FIELD SIZE:
EXPOSURE:

08:50:55 2000-10-02
ZERO DOSIMETERS

B1 TOTAL: 12,638 mV
B2 TOTAL: 17,417 mV
B3 TOTAL: 17,221 mV
B4 TOTAL: 113 mV
B5

To check dosimeters, connect the corresponding Bias Supply to the Reader,
and press the Reader's START button (or ZERO button) for 1 second.

2000-10-02

Cancel   Finish   Next Step

Exit

FIG. 7A

CHECKED WHEN INPUTTING IS FINISHED

PATIENT SELECTION

□ TN - DOSE REPORTER V2.31

Step 2: Treatment Info.

Treatment Information for Patient #1 | Show Picture

< Patient Information >

First Name: John
Last Name: Smith
Registry #: 12345678
Gender (M/F): M

Import Existing Treatment Info

< Treatment Plan Ref. >

Fraction: 1
Wedges: None
Block: None

< Radiation Settings >

Energy: 18 MV
SSD: 90 cm
Gantry Angle: 0 deg.
Collimation: N/A
Field Size: 10 x10
MU: 100

Radiation Machine

Type: Linac
S/N: 456

TN-RD-50 Reader

S/N: 278

Patient Count = 4
Current Patient: #1
John Smith

☑ ◉ **Patient #1**
☑ ○ Patient #2
☑ ○ Patient #3
☑ ○ Patient #4

Dosimeter - Assigning Table

Dosimeter	Patient	Site of Dosimeter	Target Dose
A1			
A2			
A3			
A4			
A5			
B1	#1	Site 1	100 cGy
B2	#1	Site 2	100 cGy
B3	#1	Site 3	100 cGy
B4	#1	Site 4	100 cGy
B5	#1	Site 5	100 cGy
C1			
C2			
C3			
C4			
C5			
D1			
D2			
D3			
D4			
D5			

Back to Step 1 | Apply | Cancel

Exit

Please fill in the treatment information for the current patient.
To assign (or cancel) dosimeters, click on the 'Dosimeter' column.
To indicate the sites of dosimeters graphically, click on 'Show Picture'.
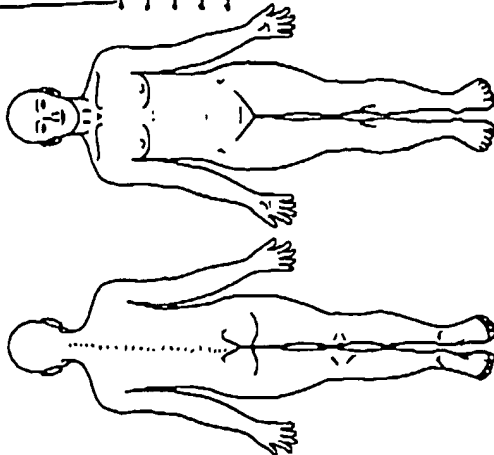
2000-10-02

FIG. 7B

POINTER — DOSIMETER LABEL

☐ TN - DOSE REPORTER V2.31

☐◻☒

Step 2: Treatment Info.

Patient Count =	4	▼

Current Patient: #1
John Smith

☑ ⊙ Patient #1
☑ ○ Patient #2
☑ ○ Patient #3
☑ ○ Patient #4

Treatment Information of Patient #1 | Hide Picture

→ B1
→ B2
→ B3
→ B4
→ B5

Print

Dosimeter - Assigning Table

Dosimeter	Patient	Site of Dosimeter	Target Dose
A1			
A2			
A3			
A4			
A5			
B1	#1	Site 1	100 cGy
B2	#1	Site 2	100 cGy
B3	#1	Site 3	100 cGy
B4	#1	Site 4	100 cGy
B5	#1	Site 5	100 cGy
C1			
C2			
C3			
C4			
C5			
D1			
D2			
D3			
D4			
D5			

Back to Step 1	Apply	Cancel

Exit

To change image, double click on the current image.
Right click the image for a menu of available image-operations.

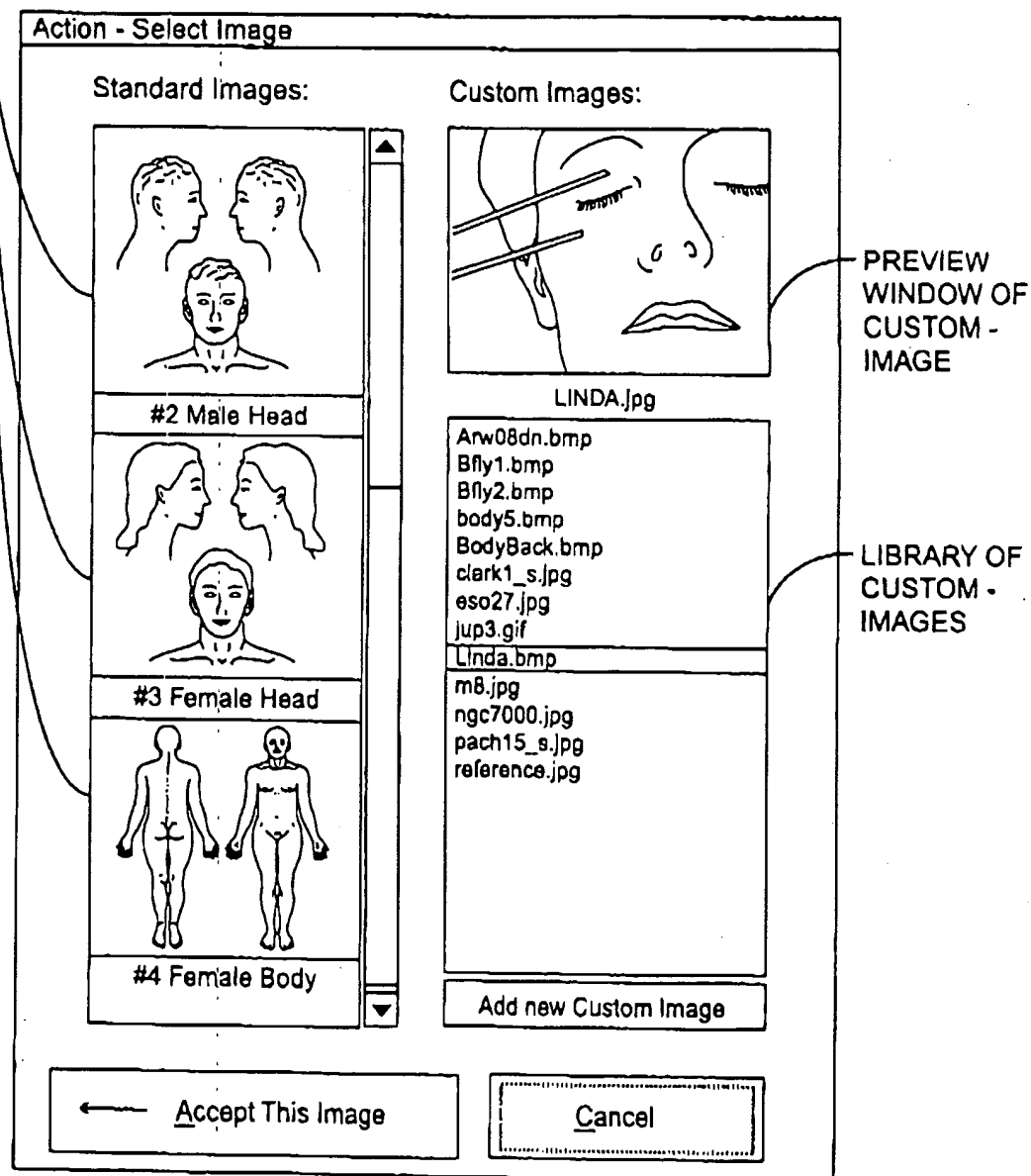2000-10-02

FIG. 7C

PREVIEW
WINDOW OF
STANDARD -
IMAGES

Action - Select Image

Standard Images: Custom Images:

#2 Male Head

#3 Female Head

#4 Female Body

LINDA.jpg

PREVIEW
WINDOW OF
CUSTOM -
IMAGE

Arw08dn.bmp
Bfly1.bmp
Bfly2.bmp
body5.bmp
BodyBack.bmp
clark1_s.Jpg
eso27.jpg
jup3.gif
Linda.bmp
m8.jpg
ngc7000.jpg
pach15_s.Jpg
reference.jpg

LIBRARY OF
CUSTOM -
IMAGES

Add new Custom Image

← Accept This Image   Cancel

FIG. 7D

TN - DOSE REPORTER V2.31

Step 3: Measuring Dose

Reader's Messages
- ○ Show All   ○ Hide
- ● Show Recent

09:01:50 2000-10-02

B3 DOSE: 100 cGy
B3 TOTAL: 17.212 mV

09:01:51 2000-10-02

B4 DOSE: 100 cGy
B4 TOTAL: 113 mV

09:01:53 2000-10-02

B5 DOSE:
B5 TOTAL:

Records of Measurement

Dosimeter	Patient & Site	Time	Voltage	Dose	Target	Deviation
A1						
A2						
A3						
A4						
A5						
B1	#1, Site 1	09:01:42	N/A	100 cGy	100 cGy	0 %
B2	#1, Site 2	09:01:47	N/A	105 cGy	100 cGy	5 %
B3	#1, Site 3	09:01:49	N/A	100 cGy	100 cGy	0 %
B4	#1, Site 4	09:01:51	N/A	100 cGy	100 cGy	0 %
B5	#1, Site 5	09:01:53	N/A	102 cGy	100 cGy	2 %
C1						
C2						
C3						
C4						
C5						
D1						
D2						
D3						
D4						
D5						

Clear

Recording is ongoing. Connect Reader to BIAS SUPPLY(s), then press its
READ button(s).
Press 'Stop' when measurement finished.
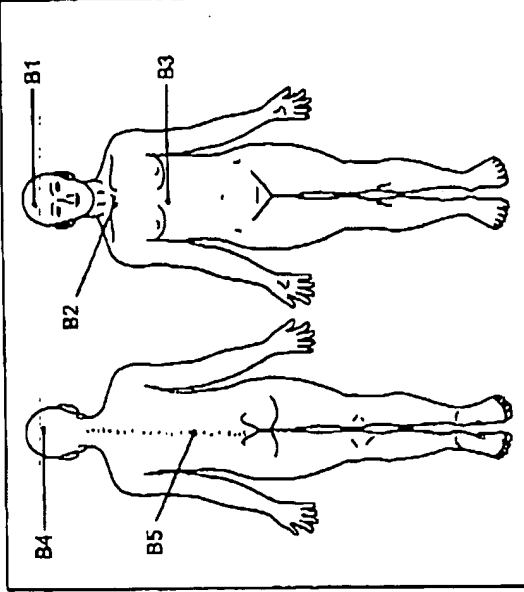
2000-10-02

Back to Step   Record   Stop

Exit

FIG. 7E

☐ TN - DOSE REPORTER V2.31

Step 4: Viewing/Printing Reports

The Current Report is of Patient #1

○ Patient #1
○ Patient #2
○ Patient #3
○ Patient #4

○ others

B1
B2
B3
B4
B5

Report Summary

Patient Name : John Smith
Registry # : 12345678
Gender : M
Image : #0
Finish Time : 09:02 / Oct 02 2000

Dosimeter B1 :	Site @ Site 1	Dose = 100 cGy	
	Target Dose = 100 cGy	Deviation = 0 %	
Dosimeter B2 :	Site @ Site 2	Dose = 105 cGy	
	Target Dose = 100 cGy	Deviation = 5 %	
Dosimeter B3 :	Site @ Site 3	Dose = 100 cGy	
	Target Dose = 100 cGy	Deviation = 0 %	
Dosimeter B4 :	Site @ Site 4	Dose = 100 cGy	
	Target Dose = 100 cGy	Deviation = 0 %	
Dosimeter B5 :	Site @ Site 5	Dose = 102 cGy	
	Target Dose = 100 cGy	Deviation = 2 %	

Click Here To
Start A New
Measurement

< Back   Print   Save   Open

Exit

Comments:
Doses within target tolerances.

2000-10-02

FIG. 7F